ABSTRACT

[Problem to be Solved] To provide a digital information carrier which enables blending of cluster information carrier comprising of image objects joined together to other viewable content (a character, an image, background, etc.) of a document, to seamlessly unify a printed document and an electronic document when accessing the cluster information carrier by an image recognition means, such as partial scanning, and to perform a method for finding positional information and processing commutative with the written contents of the document without incorrect recognition at high speed and a method for recognition.

[Solution Means] A digital information carrier comprising of a plurality of image objects as constituent elements, containing a cluster information carrier constituted by at least two image objects, and having bit data correlated to the relative relationship of at least two image objects concerned serving as configuration elements were used. In addition judgment conditions of whether the two image objects concerned serving as configuration elements constitute a cluster information carrier were correlated to the above-mentioned cluster information carrier. Furthermore, configuration of a logical block obtained by unifying a plurality of unit information carriers which are the minimum units at the time of decoding bit data from a digital information carrier was realized, and configuration of a new logical block was enabled by replacing at least one of the configuration elements of the concerned logical block with the above-mentioned unit information carrier adjacent to the logical block concerned.

[Selected Figure] Fig. 1